#9

13403.0005NPUS00.ST25 (1).txt

SEQUENCE LISTING

<110> Wang, Caili
     Zhong, Pingyu
     Wang, Xinwei

<120> ADAPTER-DIRECTED DISPLAY SYSTEMS

<130> 13403.0005NPUS00
<140> US/10/033,399
<141> 2001-11-02
<160> 26

<170> PatentIn version 3.1

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<213> Bacteriophage M13

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His Ser Ala

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<220>
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ctgagatctg gaggcggtac tgttgaaagt tgtttagcaa aa   222

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<211> 74
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5

Leu Val Val Pro Phe Tyr Ser His Ser Ala Thr Ser Arg Leu Glu Gly
1   5   10   15

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Leu Gln Ser Glu Asn His Arg Leu Arg Met Lys Ile Thr Glu Leu Asp
        20              25              30

Lys Asp Leu Glu Glu Val Thr Met Gln Leu Gln Asp Val Gly Gly Cys
        35              40              45

Ala Ala Ala Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Arg Ser Gly
    50              55              60

Gly Gly Thr Val Glu Ser Cys Leu Ala Lys
65              70
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<210>  6
<211>  56
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic, phage gene III leader linked to GABAB receptor and Myc

<400>  6
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1               5               10              15

Lys Ile Thr Glu Leu Asp Lys Asp Leu Glu Glu Val Thr Met Gln Leu
        20              25              30

Gln Asp Val Gly Gly Cys Ala Ala Ala Glu Gln Lys Leu Ile Ser Glu
        35              40              45

Glu Asp Leu Arg Ser Gly Gly Gly
    50              55
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<210>  7
<211>  3093
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Synthetic, comprising GABAB receptor 1 domain, histidine tag

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gaggaattaa aaaatgaaat acctattgcc tacggcagcc gctggattgt tattactcgc     180
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gtcccggctg ttggagaagg agaaccgtga actggaaaag atcattgctg agaaagagga     300
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<213>   Bacteriophage M13

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ttagcaaaac ctcatacaga aaattcattt actaacgtct ggaaagacga caaaacttta     180

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<210>   9
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<212>   PRT
<213>   Bacteriophage M13

<400>   9

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1               5                   10


<210>   10
<211>   2962
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Synthetic, comprising Plac promoter and HA-tag

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ctttagtaag gaggaattaa aaaatgaaat acctattgcc tacggcagcc gctggattgt     180

tattactcgc ggcccagccg gccatggcgg ccctgcaggc ctctagagcg gccgcttacc     240

cgtacgacgt tccggactac gcaggtggct gctgataagt cgacctcgac caattcgccc     300

tatagtgagt cgtattacaa ttcactggcc gtcgttttac aacgtcgtga ctgggaaaac     360

cctggcgtta cccaacttaa tcgccttgca gcacatcccc ctttcgccag ctggcgtaat     420

agcgaagagg cccgcaccga tcgcccttcc caacagttgc gcagcctgaa tggcgaatgg     480

gacgcgccct gtagcggcgc attaagcgcg gcgggtgtgg tggttacgcg cagcgtgacc     540

gctacacttg ccagcgccct agcgcccgct cctttcgctt tcttcccttc ctttctcgcc     600

acgttcgccg gctttccccg tcaagctcta aatcgggggc tccctttagg gttccgattt     660

agtgctttac ggcacctcga ccccaaaaaa cttgattagg gtgatggttc acgtagtggg     720

ccatcgccct gatagacggt ttttcgccct ttgacgttgg agtccacgtt ctttaatagt     780

ggactcttgt tccaaactgg aacaacactc aaccctatct cggtctattc ttttgattta     840

taagggattt tgccgatttc ggcctattgg ttaaaaaatg agctgattta acaaaaattt     900

aacgcgaatt ttaacaaaat attaacgctt acaatttagg tggcactttt cggggaaatg     960

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atttccgtgt cgcccttatt cccttttttg cggcattttg ccttcctgtt tttgctcacc    1140

cagaaacgct ggtgaaagta aaagatgctg aagatcagtt gggtgcacga gtgggttaca    1200

tcgaactgga tctcaacagc ggtaagatcc ttgagagttt tcgccccgaa gaacgttttc    1260

caatgatgag cactttttaaa gttctgctat gtggcgcggt attatcccgt attgacgccg    1320

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<212> DNA
<213> Bacteriophage M13

<400> 11
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cagctgcagg acgtcggagg ttgcgcggcc gcagaacaaa aactgatctc agaagaggat     180
ctgacgcgtg ctggcggcgg ctctggtggt ggttctggtg gcggctctga gggtggcggc     240
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aatgccgatg aaaacgcgct acagtctgac gctaaaggca aacttgattc tgtcgctact     420
gattacggtg ctgctatcga tggtttcatt ggtgacgttt ccggccttgc taatggtaat     480
ggtgctactg gtgattttgc tggctctaat tcccaaatgg ctcaagtcgg tgacggtgat     540
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Page 5

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aattcacctt taatgaataa tttccgtcaa tatttacctt ccctccctca atcggttgaa      600

tgtcgccctt ttgtctttgg cgctggtaaa ccatatgaat tttctattga ttgtgacaaa      660

ataaacttat tccgtggtgt ctttgcgttt ctttttatatg ttgccaccctt tatgtatgta     720

ttttctacgt ttgctaacat actgcgtaat aaggagtctt aataaggcgc gccacaattt      780

cacagtaagg aggtttaata aatgaaaaag acagctattg cgattgcagt ggcactggct      840

ggtttcgcta ccgtagcgca ggctagatct ggaggcggta ctgttgaaag ttgtttagca      900

aaa                                                                    903
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<210>   12
<211>   287
<212>   PRT
<213>   Bacteriophage M13

<400>   12

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Leu Gln Ser Glu Asn His Arg Leu Arg Met Lys Ile Thr Glu Leu Asp
                20                  25                  30

Lys Asp Leu Glu Glu Val Thr Met Gln Leu Gln Asp Val Gly Gly Cys
                35                  40                  45

Ala Ala Ala Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Thr Arg Ala
            50                  55                  60

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Glu Gly Gly Gly
65                  70                  75                  80

Ser Glu Gly Gly Gly Ser Glu Gly Gly Gly Ser Glu Gly Gly Gly Ser
                85                  90                  95

Gly Gly Gly Ser Gly Ser Gly Asp Phe Asp Tyr Glu Lys Met Ala Asn
                100                 105                 110

Ala Asn Lys Gly Ala Met Thr Glu Asn Ala Asp Glu Asn Ala Leu Gln
            115                 120                 125

Ser Asp Ala Lys Gly Lys Leu Asp Ser Val Ala Thr Asp Tyr Gly Ala
            130                 135                 140

Ala Ile Asp Gly Phe Ile Gly Asp Val Ser Gly Leu Ala Asn Gly Asn
145                 150                 155                 160

Gly Ala Thr Gly Asp Phe Ala Gly Ser Asn Ser Gln Met Ala Gln Val
                165                 170                 175

Gly Asp Gly Asp Asn Ser Pro Leu Met Asn Asn Phe Arg Gln Tyr Leu
                180                 185                 190

Pro Ser Leu Pro Gln Ser Val Glu Cys Arg Pro Phe Val Phe Gly Ala
            195                 200                 205

Gly Lys Pro Tyr Glu Phe Ser Ile Asp Cys Asp Lys Ile Asn Leu Phe
            210                 215                 220
```

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Arg Gly Val Phe Ala Phe Leu Leu Tyr Val Ala Thr Phe Met Tyr Val
225             .       230     .       235             240

Phe Ser Thr Phe Ala Asn Ile Leu Arg Asn Lys Glu Ser Met Lys Lys
                245             250             255

Thr Ala Ile Ala Ile Ala Val Ala Leu Ala Gly Phe Ala Thr Val Ala
                260             265             270

Gln Ala Arg Ser Gly Gly Gly Thr Val Glu Ser Cys Leu Ala Lys
        275             280             285
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<210> 13
<211> 272
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic, phage gene VIII leader linked to HA-tag and gene III
       sequence

<400> 13
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gcttcgcttc tagagcggcc gcttatccat acgacgtacc agactacgca ggaggtcatc     180

accatcatca ccattagaga tctggaggcg gtactgttga aagttgttta gcaaaagcta     240

acatactgcg taataaggag tcttaagtcg ac                                    272
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<210> 14
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic, comprising HA-tag, Histidine-tag sequence

<400> 14
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1               5               10              15

Val Pro Met Leu Ser Phe Ala Ser Arg Ala Ala Ala Tyr Pro Tyr Asp
                20              25              30

Val Pro Asp Tyr Ala Gly Gly His His His His His His
            35              40              45
```

<210> 15
<211> 146
<212> DNA
<213> Homo Sapien

<400> 15
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gaaaagatca ttgctgagaa agaggagcgt gtctctgaac tgcgccatca actccagtct     120

gtaggaggtt gttaataggg cgcgcc                                           146
```

<210> 16
<211> 44
<212> PRT
<213> Homo Sapien

<400> 16

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Ser Arg Gly Gly Gly Gly Glu Glu Lys Ser Arg Leu Leu Glu Lys Glu
1               5               10              15

Asn Arg Glu Leu Glu Lys Ile Ile Ala Glu Lys Glu Glu Arg Val Ser
            20              25              30

Glu Leu Arg His Gln Leu Gln Ser Val Gly Gly Cys
        35              40
```

```
<210>   17
<211>   140
<212>   DNA
<213>   Homo Sapien

<400>   17
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gtcggaggtt gcgcggccgc                                                  140
```

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<210>   18
<211>   47
<212>   PRT
<213>   Homo Sapien

<400>   18
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Ser Arg Gly Gly Gly Gly Thr Ser Arg Leu Glu Gly Leu Gln Ser Glu
1               5               10              15

Asn His Arg Leu Arg Met Lys Ile Thr Glu Leu Asp Lys Asp Leu Glu
            20              25              30

Glu Val Thr Met Gln Leu Gln Asp Val Gly Gly Cys Ala Ala Ala
        35              40              45
```

```
<210>   19
<211>   32
<212>   DNA
<213>   Bacteriophage M13

<400>   19
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```
<210>   20
<211>   32
<212>   DNA
<213>   Bacteriophage M13

<400>   20
tagaaaggta ccactaaagg aattgcgaat aa                                     32
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<210>   21
<211>   55
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Synthetic Primer

<400>   21
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```
<210>   22
<211>   55
<212>   DNA
<213>   Artificial Sequence
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<220>
<223> Synthetic Primer

<400> 22
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<210> 23
<211> 3057
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic, comprising GABAB receptor 1, HA-tag

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gaggaattaa aaaatgaaaa agtctttagt cctcaaagcc tccgtagccg ttgctaccct   180

cgttccgatg ctaagcttcg ctggtgagga aaagtcccgt ctgctggaga aagagaaccg   240

tgaactggaa aagatcattg ctgagaaaga ggagcgtgtt tctgaactgc gccatcaact   300

gcagtctgta ggcggttgca cgcgttctag agcggccgct tacccgtacg acgttccgga   360

ctacgcatga taagtcgacc tcgaccaatt cgccctatag tgagtcgtat tacaattcac   420

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gcgcggcggg tgtggtggtt acgcgcagcg tgaccgctac acttgccagc gccctagcgc   660

ccgctccttt cgctttcttc ccttcctttc tcgccacgtt cgccggcttt ccccgtcaag   720

ctctaaatcg ggggctccct ttagggttcc gatttagtgc tttacggcac ctcgacccca   780

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gccctttgac gttggagtcc acgttcttta atagtggact cttgttccaa actggaacaa   900

cactcaaccc tatctcggtc tattctttg atttataagg gattttgccg atttcggcct   960

attggttaaa aaatgagctg atttaacaaa aatttaacgc gaattttaac aaaatattaa   1020

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